

April 10, 2017

**CERTIFIED MAIL: 7016 1970 0000 7026 6211**

*Return Receipt Requested*

U.S. Environmental Protection Agency Region 7  
Attn: Chief, RCRA Corrective Action and Permits Branch  
Air, RCRA and Toxics Division  
11201 Renner Boulevard  
Lenexa, Kansas 66219

**RE: 1<sup>st</sup> QUARTER 2017 QUARTERLY PROGRESS REPORT; OCCIDENTAL  
CHEMICALS CORPORATION, WICHITA PLANT; USEPA ID# KSD007482029**

To Whom It May Concern:

Enclosed please find the Quarterly Progress Report, as required by Occidental Chemical Corporation's (OCC) RCRA hazardous waste permit number KSD007482029. This report summarizes the activities conducted for Part II of the Facility's RCRA Permit during the first quarter of 2017. In addition, please find enclosed the most recent version of the RFI Schedule, which is dated March 31, 2017 along with the most recent Vapor Intrusion ICM Monitoring Report for the first quarter of 2017, for your review and use. If you have any questions, please call Lisa R. Webb at 316/529-7204.

Sincerely,



Steve Hieger  
Plant Manager

Enclosure

c.c.: Carrie Ridley; KDHE  
Brad Roberts, USEPA Region VII  
David Anderson, GSH  
Lisa Webb; OCC  
Charles Janson, GHD

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AWMD/RCAP



**Occidental Chemical Corporation, Quarterly Progress Report  
January 1, 2017 through March 31, 2017**

Pursuant to OCC's hazardous waste permit KSD007482029, Part II, Section C.13, OCC is submitting this quarterly progress report. This report updates the progress of RCRA Corrective Action activities conducted during the first quarter of 2017.

- A quarterly building pressure monitoring and inspection event was completed. The completed reporting form is attached hereto.
- Continued operation of the interceptor well network for groundwater control around Occidental's Wichita plant.
- Completed implementation of the Vapor Intrusion Work Plan.
- Continued implementation of the Corrective Measure Study Work Plan.
- Submitted the Second Semi-Annual Groundwater Monitoring Report (Fall 2016)
- Submitted the Fourth Quarter 2016 progress report to EPA.
- Submitted the RCRA Part A Application Renewal
- There have been no releases of hazardous materials to report.

Work scheduled for the second quarter of 2017 includes:

- Implement the first 2017 Semi-Annual Groundwater Monitoring field activities.
- Continue operation of the interceptor well network for groundwater control around Occidental's Wichita plant.
- Report the On-Site Vapor Intrusion Work Plan data collection activities.
- Continue implementing the Off-Site Vapor Intrusion Work Plan data collection activities.
- Submit the revised Human Health Risk Assessment.
- Continue implementation of the Corrective Measures Study Work Plan.
- Complete the quarterly building inspection and pressure monitoring event.

Notifications: No plant changes



**Occidental Chemical Corporation**



DATE	CORRECTIVE ACTION CHRONOLOGY
	EVENT
07/07/2008	Draft Work Plan for Indoor Soil Gas Sampling
07/07/2008	Comments to QAPP Addendum 04/18/08
07/07/2008	Spring 2008 Neighbor Results
07/11/2008	Request for Interim Measures for Railroad Tracked Areas
07/25/2008	Revised Asbestos Surface Impoundment SWMU Interim Corrective Measure Implementation Report
07/28/2008	2008 2nd Quarter Progress Report
08/05/2008	Comments to Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9)
08/08/2008	Notice of Plug & Abandonment of DW #4
08/08/2008	Request for Extension of QAPP Comment Response
08/15/2008	Response to Railroad Tracked Areas Interim Measures Letter
08/18/2008	Interim Corrective Measures Implementation Report for Asbestos Surface Impoundment SWMU
09/03/2008	Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9)
09/19/2008	Revised Draft Work Plan for Indoor Soil Gas Sampling
09/22/2008	Comments to Draft Work Plan for Indoor Soils Gas Sampling
09/30/2008	Approval Letter for Work Plan for Indoor Soils Gas Sampling
10/03/2008	Comments to Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9)
10/30/2008	Appendix IX Semi-Annual Groundwater Monitoring Report
11/03/2008	Draft Work Plan for Collection & Analysis of Groundwater Samples
11/21/2008	Off-Site Soils Gas Sampling Data Evaluation Report
11/21/2008	Off-Site Geoprobe Groundwater Investigation Report
01/05/2009	Draft QAPP
01/19/2009	Indoor Soils Gas Sampling Report
01/23/2009	Sub-Slab Soils Gas Sampling
01/28/2009	Semi-Annual Neighbor Well Data
01/28/2009	4 <sup>th</sup> Quarter Corrective Action Report
02/10/2009	Direct Push Investigation Comments to EPA
02/12/2009	Off-Site Geoprobe Groundwater Investigation Report
02/20/2009	Soil Gas Sampling Data Evaluation Comments to EPA
03/19/2009	Soils Gas Sampling Data Evaluation
03/26/2009	2009 Ongoing Activities Cost Estimate
04/20/2009	Off-Site Geoprobe Report



DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
04/21/2009	Email responding to QAPP Comments
04/30/2009	Semi-Annual Groundwater Report
04/30/2009	Monitor Well Inspection Summary Report
05/08/2009	Response to Comments for Sub-Slab Soils Gas Sampling Report
06/08/2009	Final QAPP and SAP Reports
06/30/2009	RFI Investigation Work Plan for Landfill, Hex Pits, and Brine Ponds
06/30/2009	ICM Effectiveness Evaluation Report
08/26/2009	Revised RFI Work Plan for Alpha Cake Landfill, Hex Waste Pits and Brine Ponds
09/14/2009	Response to EPA's Comments letter dated July 9, 2009 regarding on-Site vapor intrusion
09/14/2009	On-Site Vapor Intrusion Investigation, Assessment and Interim Corrective Measures Implementation Report
11/30/2009	Draft Penta Area and Shipping RFI Work Plan
12/14/2009	Response to EPA Comments & Submission of Revised Interceptor Well ICM Effectiveness Evaluation Report
12/22/2009	Supplemental Off-Site Soil Gas Sample Collection and Analysis, 1 <sup>st</sup> Quarterly, letter submission
12/30/2009	Preliminary Draft Phase I Summary/Phase II Recommendations letter report
01/15/2010	Response to EPA Comments – On-Site VI, Assessment & Interim ICM Implementation Report
02/12/2010	Final Revision to Interceptor Well ICM Effectiveness Report
02/12/2010	Second 2009 Semiannual Groundwater Monitoring Report
02/16/2010	Received comments from EPA for Penta Area and Shipping RFI Work Plan
02/19/2010	Phase I Summary/Phase II Recommendations Letter Report (final), Alpha Cake Landfill, Hex Waste Pits and Brine Ponds RFI Work Plan
04/30/2010	Response to EPA Comments – Penta Area and Shipping RFI Work Plan
04/30/2010	Revised Penta Area and Shipping RFI Work Plan
05/17/2010	Resampling of MW137S1 Letter to EPA
05/28/2010	Inorganics Area RFI Work Plan
07/09/2010	Received comments from EPA for Inorganics Area RFI Work Plan
08/11/2010	Response to EPA Comments – Inorganics Area RFI Work Plan
08/11/2010	Revised Inorganics Area RFI Work Plan
08/24/2010	First Semiannual Groundwater Monitoring Report
09/23/2010	Groundwater Screening (near MW-140) Investigation Summary Letter
08/24/2010	First Semiannual Groundwater Monitoring Report
09/23/2010	Groundwater Screening (near MW-140) Investigation Summary Letter





DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
09/23/2010	Groundwater Screening (near MW-140) Investigation Summary Letter
10/4/2010	Operation and Maintenance Plan for On-Site Vapor Intrusion ICM for on-Site buildings
10/15/2010	RFI Summary Report for the Alpha Cake Landfill, Hex Waste Pits and Brine Ponds
10/29/2010	Supplemental Quarterly Off-Site Soil Gas Monitoring Summary Report
12/20/2010	Response to EPA Comments on the Operation and Maintenance Plan for On-Site Vapor Intrusion ICM for on-Site buildings
12/16/2010	Received comments from EPA for Supplemental Quarterly Off-Site Soil Gas Monitoring Summary Report
12/16/2010	Received comments from EPA for RFI Summary Report, Alpha Cake Landfill, Hex Waste Pits and Brine Ponds
12/30/2010	Comprehensive Well Survey letter submittal to EPA
1/4/2011	Penta Area and Shipping RFI Summary Report
1/17/2011	Response to EPA comments and revised Supplemental Quarterly Off-Site Soil Gas Monitoring Summary Report
1/18/2011	Response to EPA comments and revised RFI Summary Report – Landfill Areas
2/16/2011	Inorganic Area RFI Summary Report
2/23/2011	Second 2010 Semiannual Groundwater Monitoring Report
3/2/2011	Draft Conceptual Design Summary for Groundwater ICM Modifications
4/18/2011	Chloromethanes I, II, Perc and Hazwaste Areas RFI Work Plan
4/18/2011	Arkema Area Investigative Work Plan
4/29/2011	Response to EPA comments and revised RFI Summary Report – Penta Area and Shipping
4/29/2011	Response to EPA comments and revised RFI Summary Report – Inorganics Area
5/2/2011	On-Site Vapor Intrusion Mitigation ICM Construction Completion Report
6/17/2011	Response to EPA comments and revised Preliminary Conceptual Design Groundwater ICM Modifications Rpt
6/30/2011	On-Site Groundwater RFI Work Plan
6/30/2011	Vapor Intrusion ICM Inspection and Pressure Monitoring Record Report Form
7/20/2011	Response to EPA comments and revised Arkema Area Investigative Work Plan
8/1/2011	Response to EPA comments and revised On-Site Vapor Intrusion Mitigation ICM Construction Completion Rpt
8/18/2011	First 2011 Semiannual Groundwater Monitoring Report
8/22/2011	Response to EPA comments and revised Penta Area and Shipping RFI Summary Report
8/22/2011	Response to EPA comments and revised Chloromethanes I, II, Perc and Hazwaste Areas RFI Work Plan
8/26/2011	Response to EPA comments and revised Conceptual Design Groundwater ICM Modifications Report
8/26/2011	Response to EPA comments and revised Conceptual Design Groundwater ICM Modifications Report
9/12/2011	Response to EPA comments and revised Groundwater Monitoring Program Summary Table



DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
9/30/2011	Response to EPA comments and revised Arkema Investigative Work Plan
10/31/2011	Vapor Intrusion ICM Inspection and Pressure Monitoring Record Report Form
11/14/2011	Received EPA comments on On-Site Groundwater RFI Work Plan
11/14/2011	Received EPA approval letter for Arkema Area Investigative Work Plan
11/30/2011	Sampling and Analysis Plan
12/14/2011	Response to Comments and Revised On-Site Groundwater RFI Work Plan
1/5/2012	EPA Comments on Draft Sampling and Analysis Plan
1/27/2012	EPA Comments on On-Site Groundwater RFI Work Plan
2/8/2012	Response to Comments and Revised Sampling and Analysis Plan
2/20/2012	Second 2011 Semiannual Groundwater Monitoring Report
3/9/2012	Revised Sampling and Analysis Plan (SAP)
3/13/2012	Revised Standard Operating Procedures 4 for SAP
3/19/2012	Response to Comments and Revised On-Site Groundwater RFI Work Plan
3/21/2012	EPA Approval letter – On-Site Groundwater RFI Work Plan
4/17/2012	Stormwater Ponds Area RFI Work Plan
4/17/2012	Fuel Depot Area RFI Work Plan
8/6/2012	Penta Area and Shipping Phase II RFI Summary Report
8/6/2012	Chloromethanes I, II, Perc and Hazwaste Areas RFI and Arkema Area Investigation Summary Report
8/13/2012	Response to Comments and Revised Stormwater Ponds RFI Work Plan and Revised Fuel Depot RFI Work Plan
8/14/2012	Inorganics Area Supplemental Report
8/17/2012	Formal Notification of Additional SWMUs
8/24/2012	First 2012 Semiannual Groundwater Monitoring Report
11/14/2012	Class I Modification Letter for Additional SWMUs
11/15/2012	Phase I On-Site Groundwater Investigation RFI Summary Report
2/22/2013	Second 2012 Semiannual Groundwater Monitoring Report
3/7/2013	Response to EPA Comments and Revised Penta Area and Shipping Phase II RFI Summary Report
3/15/2013	Response to EPA Comments and Revised Phase I On-Site Groundwater RFI Summary Report
3/22/2013	Fuel Depot and Stormwater Ponds Area RFI Summary Report
4/19/2013	EPA approval letter – Revised Phase I On-Site Groundwater Summary Report and Revised Phase II Penta Area and Shipping RFI Summary Report
4/24/2013	Monitoring Well Abandonment and Replacement letter

DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
4/25/2013	EPA approval letter – Fuel Depot and Stormwater Pond Area RFI Summary Report
8/22/2013	First 2013 Semiannual Groundwater Monitoring Report
2/25/2014	Second 2013 Semi-Annual Groundwater Monitoring Report
2/25/2014	Phase II On-Site Groundwater RFI Summary Report
3/11/2014	Formal Notification of an Additional Solid Waste Management Unit
5/16/2014	EPA Comments – Phase II On-Site Groundwater Investigation RFI Summary Report
6/6/2014	Class I Permit Modification Letter, Additional Solid Waste Management Unit
6/19/2014	Response to EPA Comments and Phase II On-Site Groundwater Investigation RFI Supplemental Report
6/20/2014	Notification of Plant Changes Letter (Sump 426)
7/28/2014	Notification of Plant Changes Letter (Deep Well No. 3 cellar modifications)
8/22/2014	First 2014 Semi-Annual Groundwater Monitoring Report
9/4/2014	EPA approval letter – On-Site Groundwater Investigation RFI Summary Report
11/26/2014	Additional Monitoring Well Installations and Groundwater Screening Locations Letter
12/18/2014	Human Health Risk Assessment Work Plan
12/18/2014	Final Comprehensive RFI Summary Report
2/13/2015	Notification of Plant Changes Letter (Sump 417)
2/23/2015	Second 2014 Semi-Annual Groundwater Monitoring Report
3/24/2015	Response to EPA Comments and Revised Comprehensive RFI Summary Report
4/2/2015	Response to EPA Comments and Revised Human Health Risk Assessment Work Plan
4/24/2015	EPA Approval Letter – Revised Human Health Risk Assessment Work Plan
6/4/2015	EPA Approval Letter – Revised Comprehensive RCRA Facility Investigation Summary Report
7/27/2015	First 2015 Semi-Annual Groundwater Monitoring Report
9/3/2015	Human Health Risk Assessment
9/3/2015	Corrective Measures Study Work Plan
10/22/2015	Response to EPA Comments and Revised Corrective Measures Study Work Plan
11/10/2015	EPA Approval Letter - Revised Corrective Measures Study Work Plan
12/29/2015	Response to EPA Comments and Revised Human Health Risk Assessment
01/15/2016	On-Site Vapor Intrusion Investigation Work Plan
03/10/2016	EPA Comments – On-Site Vapor Intrusion Investigation Work Plan
03/31/2016	Second 2015 Semi-Annual Groundwater Monitoring Report





DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
07/08/2016	Response to EPA Comments – On-Site Vapor Intrusion Work Plan
07/27/2016	EPA Comments – On-Site Vapor Intrusion Work Plan
08/18/2016	Response to EPA Comments – On-Site Vapor Intrusion Work Plan
08/24/2016	EPA Comments – On-Site Vapor Intrusion Work Plan
09/22/2016	First 2016 Semi-Annual Groundwater Report
09/23/2016	Response to EPA Comments – On-Site Vapor Intrusion Work Plan
09/24/2016	EPA Approval On-Site Vapor Intrusion Work Plan
01/26/2017	RCRA Part A Permit Renewal
03/17/2017	Second 2016 Semi-Annual Groundwater Report

# Pressure Measurement Record

## Administration Building, Technical Center, Control Laboratory

Technician Name: **Jeremy Raye**

Date: **March 27, 2017**

### Equipment and Calibration

Pressure Meter Make, Model, and Identifier  
**Omniguard V. 4.0**

Unusual weather conditions ☐ yes ☒ no

Units

☒ in WC

☐ \_\_\_\_\_

Zero Calibration

☒ Pass ☐ Fail

Pressure meter reads 0.000 when both ports are open to ambient air.

Pressure measurement requires a differential pressure meter (aka micromanometer) with a resolution of 0.01 inches of water (in WC) or less (0.001 preferred). The recorded pressure measurement will be the average of readings collected over a half-hour time span (to avoid ephemeral pressure changes such as wind gusts).

Administration Building	Time	Half-Hour Average Differential Pressure (in WC)	Minimum Effective +0.001 in WC	Notes
Second Floor	15:00	0.006	<del>_____</del>	Good
Cafeteria	14:20	0.039	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	Good
Basement	13:45	0.013	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	Good

Note: Inlet 1 should be open to indoor air. Inlet 2 (Reference) should be connected to the outdoor air tubing.

Technical Center (R&D Lab)	Time	Half-Hour Average Differential Pressure (in WC)	Minimum Effective +0.001 in WC	Notes
North Basement	12:20	0.015	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	Good
South Basement	13:00	0.020	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	Good

Note: Inlet 1 should be open to indoor air. Inlet 2 (Reference) should be connected to the outdoor air tubing.

Control Laboratory	Time	Half-Hour Average Differential Pressure (in WC)	Minimum Effective +0.001 in WC	Notes
Lab Area	11:35	0.034	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	Good

Note: This monitoring location is outside the building (unlike the Administration Building and Technical Center) and the tubing should be connected as follows: Inlet 1 should be connected to the indoor air tubing. Inlet 2 (Reference) should be open to outdoor air.

### Notes:

All locations passed inspection.

Upon completion, this form should be sent to the OXY Wichita Environmental Department (Lisa Thurman) or GHD (charles.janson@ghd.com)



# Building Inspection Record

## Administration Building, Technical Center, Control Laboratory

Technician Name: Jeremy Raye

Date: March 27, 2017

### Administration Building

Building Inspection Notes  
(Building Envelope and Floors)

Second Floor	Good
Cafeteria	Good
Basement	Good

Additional details and corrective action

### Technical Center (R&D Lab)

Building Inspection Notes  
(Building Envelope and Floors)

North Basement	Good
South Basement	Good

Additional details and corrective action

### Control Laboratory

Building Inspection Notes  
(Building Envelope and Floors)

Lab Area	Good
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Additional details and corrective action

Upon completion, this form should be sent to the OXY Wichita Environmental Department (Lisa Thurman) or GHD (charles.janson@ghd.com).





Wichita Facility  
RFI Schedule  
March 31, 2017

9/30 | 9/30

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